



USPTO'S PTO 27 FEB 2006

PCT

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the US Postal Service with sufficient postage as First Class Mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Date: February 27, 2006 By: Mari Kleijndam
Mari Kleijndam

PATENT

Attorney Docket No. GC787-2-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of) Group Art Unit: Unassigned
LEEFANG <i>et al.</i>) Examiner: Unassigned
Serial No.: 10/541,737)
Filed: July 8, 2005)
For: Methods for Site-Directed Mutagenesis and Targeted Randomization)

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants submit herewith patents, publications or other information (listed on the attached Form PTO-1449 and attached thereto) of which they are aware, that they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

This Information Disclosure Statement:

- (a) accompanies the new patent application submitted herewith. 37 CFR §1.97(a).

GC787-2-US IDS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.V./
1

(b) is filed within three months after the filing date of the application or within three months after the date of entry into the national stage of a PCT application as set forth in 37 CFR §1.491.

(c) as far as is known to the undersigned, is filed before the mailing date of a first Office Action on the merits.

(d) is filed after the first Office Action and more than three months after the application filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a notice of allowance, whichever occurs first, and is accompanied by either the fee (\$180.00) set forth in 37 CFR §1.17(p) or a certification as specified in 37 CFR §1.97(e), as checked below. Authorization to charge Deposit Account No. 07-1048 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement is provided in the Transmittal Letter submitted herewith in duplicate.

(e) is filed after the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and is accompanied by authorization (in the Transmittal Letter submitted herewith in duplicate) to charge Deposit Account No. 07-1048 the fee (\$180.00) set forth in 37 CFR §1.17(l)(1) and a certification as specified in 37 CFR §1.97(e), as checked below. **This document is to be considered as a petition requesting consideration of the Supplemental Information Disclosure Statement.**

[If either of boxes (d) or (e) is checked above, the following "certification" under 37 CFR §1.97(e) must be completed.] The undersigned certifies that:

Each item of information contained in the Information Disclosure Statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

No item of information contained in this Information Disclosure Statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application and to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

A copy of the items on Form PTO-1449 is supplied: PCT International Search Report for PCT/US04/01334, mailed 15 September 2004 with attached patents and publications.

each none only those listed below:

Serial No. 10/541,737
Filed: July 8, 2005

Those patent(s) or publication(s) which are marked with an asterisk (*) on the attached Form PTO-1449 are not supplied because they were previously cited by or submitted to the Office in a prior application, Serial No. _____ filed _____, and relied upon in this application for an earlier filing date under 35 USC 120.

Those patent(s) or publication(s) which are marked with an asterisk (**) on the attached Form PTO-1449 (**Books not sent**) are not supplied. Complete bibliographic information is unknown or unavailable. The cited publications are books or reference manuals and are commonly available. Reproduction of such publications would result in a voluminous submission.

A concise explanation of relevance of the items listed on PTO-1449 is:

- not given
- given for each listed item
- given for only non-English language listed item(s)
- in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

The Examiner is reminded that a "concise explanation of the relevance" of the submitted prior art "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention." MPEP §609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR §1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR §1.97(b), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as

Serial No. 10/541,737
Filed: July 8, 2005

defined in 37 CFR §1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR §1.98 and MPEP §609 and the Examiner is respectfully requested to consider the listed references.

Respectfully submitted,

Dated: 22 February 2006


Kamrin T. MacKnight
Reg. No. 38,230

Genencor International, Inc.
925 Page Mill Road
Palo Alto, CA 94304-1013
Tel.: (650) 846-5838
Fax: (650) 845-6504



INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GCT07-2-US	Serial No.: 10/541,737
Applicant: LEEFLANG et al.	
Filing Date: July 8, 2005	Group: To be assigned
Page 1 of 2	Date of this Submission: February 20, 2006

US PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
	US 2003/0162209 A1	08/28/03	Martin	435	6	12/19/02
	4,458,066	07/03/84	Caruthers et al.	536	27	03/24/81
	5,411,873	05/02/95	Adams et al.	435	69.1	08/11/92
	5,776,746	07/07/98	Denney, Jr.	435	172.3	05/01/96
	6,482,628	11/19/02	Pouloue et al.	435	221	10/23/98

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document Number	Date	Country	Class	Sub-Class	Translation Y s/No
	WO 89/06276	13.07.89	PCT			
	WO 95/14099	26.05.95	PCT			
	WO 99/20769	29.04.99	PCT			
	WO 03/062381 A2	31.07.03	PCT			
	WO 03/062380 A2	31.07.03	PCT			

OTHER DOCUMENTS

Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.	
	Anagnostopoulos, C. et al., "Requirements for Transformation in <i>Bacillus Subtilis</i> ," <i>J. Bacteriol.</i> , 81:741-746, 1961.	
	**Ausubel, Frederick, ed. Current Protocols in Molecular Biology, John Wiley & Sons, Inc., Vol. 1, Chapters, 2, 3, and 9, 1987.	
Examiner	Nancy Vogel/	Date Considered
		03/23/2009

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449



INFORMATION DISCLOSURE CITATION

Att m y Docket N .: GC787-2-US	Serial No.: 10/541,737
Applicant: LEEFLANG et al.	
Filing Date: July 8, 2005	Group: To be assigned
Page 2 of 2	Date of this Submission: February 20, 2006

OTHER DOCUMENTS

Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.
	Beaucage S. et al., "Deoxynucleoside Phosphoramidites – A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahedron Letters</i> , 22(20):1859-1862, 1981.
	Contente, S. et al., "Marker Rescue Transformation by Linear Plasmid DNA in <i>Bacillus Subtilis</i> ," <i>Plasmid</i> , 2:555-571, 1979.
	Hahn et al., "Regulatory inputs for the synthesis of ComK, the competence transcription factor of <i>Bacillus subtilis</i> ," <i>Molecular Microbiology</i> , 21(4):763-775, 1996.
	**Hale & Markham, <u>The Harper Collins Dictionary of Biology</u> , Harper Perennial, NY, 1991.
	Hanes, J. et al., "In vitro selection and evolution of functional proteins by using ribosome display," <i>Proc. Natl. Acad. Sci. USA</i> , 94:4937-4942, 1997.
	Kim et al., "Multiple Site Mutagenesis with High Targeting Efficiency in One Cloning Step," <i>BioTechniques</i> , 28:196-198, 2000.
	**Molecular Biological Methods for <i>Bacillus</i> , Ed. Harwood and Cutting, John Wiley & Sons, 1990.
	Mottes, M. et al., "Different Specific Activities of the Monomeric and Oligomeric Forms of Plasmid DNA in Transformation of <i>B. subtilis</i> and <i>E. coli</i> ," <i>Molec. Gen. Genet.</i> , 174:281-286, 1979.
	Naki, D. et al., "Selection of a subtilisin-hyperproducing <i>Bacillus</i> in a highly structured environment," <i>Appl. Microbiol. Biotechnol.</i> , 49: 290-294, (XP-000972404), 1998.
	Neidhardt, F. et al., "Culture Medium for Enterobacteria," <i>Journal of Bacteriology</i> , 119(3):736-747, 1974.
	Shafikhani, S. et al., "Generation of Large Libraries of Random Mutants in <i>Bacillus subtilis</i> by PCR-Based Plasmid Multimerization," <i>BioTechniques</i> , 23(2):304-310, 1997.
	**Singleton et al., <u>Dictionary of Microbiology and Molecular Biology</u> , 2 nd Ed., John Wiley and Sons, New York, 1994.
	Vallejo, A. et al., "Mutagenesis and Synthesis of Novel Recombinant Genes Using PCR," <u>PCR Primer: A Laboratory Manual</u> , Diefenbach, C. W., Dveksler, G. S., eds.) pp. 603-612, Cold Spring Harbor Laboratory Press, 1995.
	Copy of the International Search Report for PCT/US04/01334 mailed 15 September 2004.

Examiner	/Nancy Vogel/	Date Considered	03/23/2009
----------	---------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant